

Kalyani Kansal

Department of Mathematics
Johns Hopkins University
Baltimore, MD 21211

Email: kkansal2@jhu.edu
Website: <https://kalyanikansal.github.io>

Education	PhD in Mathematics Johns Hopkins University Advisor: David Savitt	2016-2023 (expected)
	Bachelor of Medicine and Bachelor of Surgery Government Medical College, Chandigarh, India (Equivalent to MD degree in USA)	2007-2013
Past Employment	Post-doctoral fellow in Psychiatry Johns Hopkins University School of Medicine	2013-2016
Research Interests	Number theory, Arithmetic geometry	
Mathematical Papers	K. Kansal. “Codimension one intersections between components of a moduli stack of two-dimensional Galois representations”, <i>preprint</i> . A. Guzman, K. Kansal, I. Kountouridis, B. Savoie and X. Wang. “Smoothness of components of the Emerton-Gee stack for GL_2 ”, <i>preprint</i> .	
Invited Talks	Community building in Langlands Program Bonn, Germany	August, 2022
	Ohio State Number Theory Seminar Online	September, 2022
	Rice University AGNT Seminar Houston, USA	October, 2022
	Johns Hopkins Junior Number Theory Days Baltimore, USA (Upcoming)	December, 2022
	Joint Mathematical Meetings AMS Special Session on Women in Automorphic Forms Boston, USA (Upcoming)	January, 2023
	Essen Number Theory Seminar Online (Upcoming)	January, 2023
Conferences Attended	Community building in Langlands Program Bonn, Germany	August, 2022
	Collaborative Research Workshop	July, 2022

Eugene, USA

Arizona Winter School, Automorphic forms beyond GL_n
Tucson, USA

March, 2022

MSRI summer school, Toric Varieties
Taipei, Taiwan

August, 2019

Serre conjectures and p -adic Langlands
Padova, Italy

May, 2019

MSRI summer school, Derived Categories
Berkeley, USA

June, 2018

**Selected
non-Math
Papers**

K. Kansal, Z. Yang, A. M. Fishman, H. I. Sair, S. H. Ying, B. M. Jedynak, J. L. Prince, C. U. Onyike. "Structural cerebellar correlates of cognitive and motor dysfunctions in cerebellar degeneration". Brain, 2017.

K. Kansal, M. Mareddy, K. L. Sloane, A. A. Minc, P. V. Rabins, J. B. McGready, C. U. Onyike. "Survival in frontotemporal dementia phenotypes: a meta-analysis". Dementia and geriatric cognitive disorders, 2016.

K. Kansal, D. J. Irwin. "The Use of Cerebrospinal Fluid and Neuropathologic Studies in Neuropsychiatry Practice and Research". Psychiatric Clinics, 2015.

**Teaching
Experience**

Instructor: Linear Algebra (Summer 2017, 2018), Intro to Calculus (Fall 2021)

TA: Calculus I, II and III, Linear Algebra, Methods of Complex Analysis, Abstract Algebra (various, 2016-2022)